BNL BERYLLIUM USE REVIEW FORM (CuBe)

| BNL BERYLLIUM USE REVIEW FORM (Cube) | | | |
|--|--|--|--|
| CURRENT: OPERATIONS CURRENTLY BEING DONE Complete a separate questionnaire for each beryllium operation. | | | |
| Complete a separate | e questionnaire for each be | eryllium operation. | |
| | | | |
| Department | (machine shop, accelerator, e | experiment, laboratory) | |
| T | National Synchrotron Light Source (Accelerator) | | |
| | | | |
| Use of Beryllium | (detector window, beam pipe, reaction product, stock) | | |
| | | Be (usually ~1.8 - 2% Be) | |
| | | l feed-throughs and contacts, tools | |
| Describe Use or Process | Rods, Sheet, Wire Usually handled as an ARTICLE | | |
| Describe ose of Trocess | Osuany nandred as an A | IKITEEL | |
| | Power tool (hole punch) | | |
| | | | |
| | Hand Tool (shear) | | |
| Description of | Used in the manufacture of springs, clips, electrical contacts (sheet cut with | | |
| Operation/Handling | shears, hole-punched, no grinding or filing). May be 100's to 1000's around | | |
| Procedure: | the NSLS (in vacuum and out). | | |
| | 2. Used in "Power-Push-On" connectors for electrical feed-throughs; a | | |
| | NSLS (in vacuum | ct (Insulator Seal Inc.), may be 100's to 1000's around the | |
| | ` | etc. used in magnet testing lab due to its non-magnetic | |
| | | n tensile strength. Also, non-sparking properties. | |
| | NOTE: | | |
| | | be used in many more applications than we are aware. It | |
| | | ectrical contacts on every light switch in BNL. It could | |
| | | y of electrical equipment. | |
| | - Guidance will be n 2% Be) and how to | needed as to whether it can be safely machined (@ only o clean up waste. | |
| | - | ke care in handling Be metal and BeO, I am not aware of | |
| | special handling needs (gloves, etc.) for CuBe. | | |
| Physical State of Be Amount Used | Solid (rod sheet wire N.A. | e article) - see above for more detail | |
| Building: 725 | N.A. | Room: Experimental floor | |
| Building. 725 | | Room 2-190A (storage) | |
| | | Room 1-123C (tools) | |
| | | X5 Target Room (tools) | |
| 727 | | Magnet Leb (in use storage tools) | |
| Frequency of Use | | Magnet Lab. (in use, storage, tools) Continuous use | |
| requency of one | | Continuous use | |
| Engineering Controls: | Describe: none used at | present for shearing and hole punching. | |
| | | | |
| Personal Protective | Gloves: None at present | | |
| Equipment | Clothing: Lab Coat (sometimes) | | |
| | Respirator: None at present | | |
| | Frequency: Occasional | | |
| Users (with life number of | Name & Status (Current Employee) | | |
| Job title) | Current techs and scientists: | | |
| | Mike Radulesku, Tony Lenhard, Rick Greene, Shu Cheung, George Radulesku, | | |
| | | we Harder, Mike Lehecka, Bob Scheuerer, Roy d'Alsace, | |
| | Gloria Ramirez; Willia related articles. | m Newburgh, many NSLS staff and users use electrically | |
| | related articles. | | |

| Emergency Response | Electrical contacts can be melted or vaporized as a result of arcing. As a result of | | |
|----------------------------|--|--|--|
| Scenario | such an incident inside an RF transmitter cabinet, air and surface surveys were | | |
| [Describe likely event(s)] | taken, clean up was performed and a recommended protocol for working in this | | |
| | type of environment was established. | | |
| Written Documentation and | NSLS PRM 6.3.0 "Beryllium Management" outlines the NSLS beryllium | | |
| Emergency Response | program, including: | | |
| | Responsibilities | | |
| | Work Control Requirements | | |
| | Storage and Handling | | |
| | Damaged Articles | | |
| | Oxidized Articles | | |
| | Training | | |
| | ■ Wastes | | |
| | BNL Industrial Health staff is contacted to conduct surface and air monitoring as | | |
| | necessary. | | |
| Pollution Prevention Plan | N.A. No machining except shearing and hole punching. | | |
| End of Project Plan | End-of-Project Plan would involve dealing with any remaining beryllium as a | | |
| - | waste as described in NSLS PRM 6.3.0. | | |

Person Completing the Questionnaire

| Name: Lori Stiegler | Phone: 631-344-5366 |
|------------------------|---------------------|
| Date: January 16, 2008 | Mail Building: 725D |